

CPC**COOPERATIVE PATENT CLASSIFICATION****B24C****ABRASIVE OR RELATED BLASTING WITH PARTICULATE MATERIAL****NOTE**

[C2012.04]

This subclass covers: - the use of a blast of any particles or pellets dispersed in air, gas, or liquid for the treatment of surfaces or cutting of materials, the particles usually being of abrasive material; - the equivalent use of a jet of particles or pellets projected or energised by means other than a stream of air { - the equivalent use of material without particles or pellets for deburring, removal of extended surface areas or jet milling of local recessions, e.g. grooves} In this subclass, the following terms are used with the meanings indicated: - "abrasive" covers any material used in the manner mentioned in Note (1) above; - "blast" covers any equivalent jet of material mentioned in Note (1) above

B24C 1/00**Methods for use of abrasive blasting for producing particular effects; Use of auxiliary equipment in connection with such methods**

B24C 1/003

- . { using material which dissolves or changes phase after the treatment e.g. ice, CO₂ }

B24C 1/006

- . { using material without particles or pellets for deburring, removal of extended surface areas or jet milling of local recessions, e.g. grooves }

B24C 1/02

- . for sharpening or cleaning cutting tools, e.g. files

B24C 1/04

- . for treating only selected parts of a surface, e.g. for carving stone or glass

B24C 1/045

- .. { for cutting (energy dissipating devices therefor [B26F 3/008](#)) }

B24C 1/06

- . for producing matt surfaces, e.g. on plastic materials, on glass

B24C 1/08

- . for polishing surfaces, e.g. { [smoothing a surface](#) } by making use of liquid-borne abrasives

B24C 1/083

- .. { [Deburring](#) }

B24C 1/086

- .. { [Descaling; Removing coating films](#) }

B24C 1/10

- . for compacting surfaces, e.g. shot-peening ([for deforming sheet metal, tubes or profiles B21D 31/06](#); as a metallurgical treatment [C21D 7/00](#), [C22F 1/00](#))

B24C 3/00**Abrasive blasting machines or devices; Plants**

B24C 3/02

- . characterised by the arrangement of the component assemblies with respect to each other ([B24C 3/08](#), [B24C 3/18](#) take precedence)

B24C 3/04

- .. stationary

B24C 3/06

- .. movable; portable

- B24C 3/062 . . . {for vertical surfaces}
- B24C 3/065 . . . {with suction means for the abrasive and the waste material}
- B24C 3/067 {Self-contained units for floorings}

- B24C 3/08 . . essentially adapted for abrasive blasting of travelling stock or travelling workpieces
- B24C 3/081 . . { for travelling bundles of wires}
- B24C 3/083 . . {Transfer or feeding devices; Accessories therefor}
- B24C 3/085 . . { the travelling workpieces being moved into different working positions during travelling}
- B24C 3/086 . . . { whereby the workpieces are turned through a rotational arc of about 180 degrees}
- B24C 3/088 . . {using a vibratory transfer mechanism}
- B24C 3/10 . . for treating external surfaces
- B24C 3/12 . . . Apparatus using nozzles
- B24C 3/14 . . . Apparatus using impellers
- B24C 3/16 . . for treating internal surfaces

- B24C 3/18 . . essentially provided with means for moving workpieces into different working positions ([B24C 3/08](#) takes precedence)
- B24C 3/20 . . the work being supported by turn-tables
- B24C 3/22 . . . Apparatus using nozzles
- B24C 3/24 . . . Apparatus using impellers
- B24C 3/26 . . the work being supported by barrel cages, i.e. tumblers; Gimbal mountings therefor
- B24C 3/263 . . . {using refrigerating means}
- B24C 3/266 . . . {for continuously travelling workpieces}
- B24C 3/28 . . . Apparatus using nozzles
- B24C 3/30 . . . Apparatus using impellers

- B24C 3/32 . . designed for abrasive blasting of particular work, e.g. the internal surfaces of cylinder blocks ([B24C 3/08](#), [B24C 3/18](#) take precedence)
- B24C 3/322 . . {for electrical components}
- B24C 3/325 . . {for internal surfaces, e.g. of tubes}
- B24C 3/327 . . . { by an axially-moving flow of abrasive particles without passing a blast gun, impeller or the like along the internal surface (polishing or abrading surfaces using plastically deformable grinding compound, moved relatively to the workpiece under the influence of pressure [B24B 31/116](#))}
- B24C 3/34 . . for cleaning sparking plugs

Accessories or equipment for abrasive blasting machines or devices

B24C 5/00

Devices or accessories for generating abrasive blasts

- B24C 5/005 . . { Vibratory devices, e.g. for generating abrasive blasts by ultrasonic vibrations (sonic cleaning in general [B08B 3/12](#))}
- B24C 5/02 . . Blast guns, e.g. for generating high velocity abrasive fluid jets for cutting materials

